

1 **ABSTRACT OF THE DISCLOSURE**

2 A dental prostheses modeling system includes a molding tray for molding the base
3 of a quadrant or full-arch dental model cast which has a longitudinally disposed partition panel
4 disposed generally between upper and lower surfaces of the tray that forms therewithin an upper
5 well for receiving liquid die stone to mold the base of a dental impression model, and a low r
6 well shaped symmetrically to the upper well for providing clearance for optional manipulating
7 pins installable in the bases of selected die segments modeling individual dental prostheses
8 severed from the hardened die stone base of the model. The partition panel includes peripheral
9 flanges for supporting the base of the dental model, and an openable central portion for
10 enabling a hardened dental model to be ejected from the tray, and for providing access for
11 manipulating pins depending downwardly from die segments. A pair of slide receptacles for
12 slidably receiving a modeling tray is removably attachable to upper and lower arms of a
13 laboratory articulator, from which a pair of molding trays holding a pair of dental models can be
14 slidably removed and attached to a disposable hinge mechanism to comprise a articulateable
15 full-mouth model for a dentist and patient.

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